

WHAT IS CLAIMED IS:

1           1. A purified or isolated nucleic acid comprising at least 10 consecutive  
2 bases of the sequence of one of SEQ ID NOs: 40-84 and 130-154 or one of the  
3 sequences complementary thereto.

1           2. The purified or isolated nucleic acid of claim 1, comprising the sequence  
2 of one of SEQ ID NOs: 40-84 and 130-154 or a sequence complementary thereto.

1           3. The purified or isolated nucleic acid of claim 1, comprising the full  
2 coding sequences of one of SEQ ID NOs: 40-59, 61-73, 75, 77-82, and 130-154 wherein  
3 the full coding sequence comprises the sequence encoding signal peptide and the  
4 sequence encoding mature protein.

1           4. The purified or isolated nucleic acid of claim 1, comprising the  
2 nucleotides of one of SEQ ID NOs: 40-59, 61-75, 77-82, and 130-154 which encode a  
3 mature protein.

1           5. The purified or isolated nucleic acid of claim 1, comprising the  
2 nucleotides of one of SEQ ID NOs: 40-59, 61-73, 75-82, 84, and 130-154 which encode  
3 the signal peptide.

1           6. A purified or isolated nucleic acid encoding at least 10 amino acids of a  
2 polypeptide having the sequence of one of the sequences of SEQ ID NOs: 85-129 and  
3 155-179.

1           7.     The purified or isolated nucleic acid of claim 6, encoding a polypeptide  
2        having the sequence of a mature protein included in one of the sequences of SEQ ID  
3        NOs: 85-104, 106-120, 122-127, and 155-179.

1           8.     The purified or isolated nucleic acid of claim 6, encoding a polypeptide  
2        having the sequence of a signal peptide included in one of the sequences of SEQ ID  
3        NOs: 85-104, 106-118, 120-127, 129, and 155-179.

1           9.     A purified or isolated polypeptide comprising at least 10 consecutive  
2        amino acids of one of the sequences of SEQ ID NOs: 85-129 and 155-179.

1           10.    The purified or isolated protein of claim 9, comprising the full length  
2        sequence of one of SEQ ID NOs: 85-129 and 155-179.

1           11.    The isolated or purified polypeptide of claim 9, comprising a signal  
2        peptide of one of the polypeptides of SEQ ID NOs: 85-104, 106-118, 120-127, 129, and  
3        155-179.

1           12.    The isolated or purified polypeptide of claim 9, comprising a mature  
2        protein of one of the polypeptides of SEQ ID NOs: 85-104, 106-120, 122-127, and 155-  
3        179.

1           13. A method of making a protein comprising one of the sequences of SEQ  
2       ID NO: 85-129 and 155-179, comprising the steps of:

- 3           a) growing an appropriate host cell under conditions whereby said protein  
4       is expressed, and  
5           b) isolating said protein.

1           14. A host cell recombinant for the nucleic acid of claim 1.

1           15. In an array of polynucleotides of at least 15 nucleotides in length, the  
2       improvement comprising inclusion in said array of at least one of the sequences of SEQ  
3       ID NOS: 40-84 and 130-154, or one of the sequences complementary to the sequences  
4       of SEQ ID NOS: 40-84 and 130-154, or a fragment thereof of at least 15 consecutive  
5       nucleotides.

1           16. A purified or isolated antibody capable of binding to a polypeptide  
2       comprising at least 10 consecutive amino acids of the sequence of one of SEQ ID NOS:  
3       85-129 and 155-179.

1           17. A computer readable medium having stored thereon a sequence selected  
2       from the group consisting of a cDNA code of SEQID NOS. 40-84 and 130-154 or a  
3       polypeptide code of SEQ ID NOS. 85-129 and 155-179.

1           18. A method of binding the antibody of claim 16 to a polypeptide of claim 6.

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1           19. A method for comparing a first sequence of claim 17 to a reference  
2 sequence comprising the steps of:

3           reading said first sequence and said reference sequence through use of a computer  
4 program which compares sequences; and

5           determining differences between said first sequence and said reference sequence  
6 with said computer program.

1           20. A method for identifying a feature in a sequence of claim 17 comprising  
2 the steps of:

3           reading said sequence through the use of a computer program which identifies  
4 features in sequences; and

5           identifying features in said sequence with said computer program.